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[W0898 BC ONE 10y]

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H483 H8 J0 J011 J012 J013 J014 J1 J111 J112 J113 J171 J4 J471 K0 L8
L815 L819 L821 L822 L823 L824 L832 M126 M129 M141 M149 M280 M320 M413
M416 M510 M521 M522 M523 M530 M540 M620 M720 M903 M904 N134 N153 N161
N421 N512 P220 Q233; 9434-10501-P
PA - (AOMO-N) AOMORI KEN
PN - JP6205687 A 19940726 DW199434 C12P19/14 003pp
PR - JP19920297598 19920629
XA - C1994-125643
XIC - C12P-019/14
AB - J06205687 Prod. of mono- and oligo-galacturonic acid from pectins or
pectic acid with an enzyme bound to a water insoluble carrier.
- The pectins are derived from plants, and pectic acid is obtained from
pectins. They are treated with an esterase (e.g. pectin-lyase, pectic
acid lyase, polygalacturonase and esterase) immobilised on a suitable
carrier (e.g. chitosan beads).
- USE/ADVANTAGE - ~~Mono- and oligo-galacturonic acid are used as an~~
~~elicitor factor for the defensive response against microorganisms~~
(e.g. E. coli) ~~and plant diseases. They can be mass produced.~~
- In an example, 15 mg of a pectinase in 0.1 M HEPES buffer, pH 7.5, was
covalently bound to 1 ml of 'Affigel 10' (RTM), a water insoluble
carrier, packed in a column and adjusted to 20 deg.C. Citrus pectin
was dissolved in 0.01 M acetate buffer, to make 0.3% soln., pH 4.5,
filtered and passed through the column at a flow rate of 0.1 ml/min.
The eluate was desalted with a cation exchanger and lyophilised to
give a mixt. of mono- and polygalacturonic acid composed of 57% of
monomer, 11% of dimer, 10% of trimer, 6% of tetramer and 5% of
pentamer.(Dwg.0/1)
CN - 9434-10501-P
IW - PRODUCE MONO OLIGO GALACTURONIC ACID RESISTANCE INFECT PECTIN PECTIC
ACID ENZYME FIX CARRY
IKW - PRODUCE MONO OLIGO GALACTURONIC ACID RESISTANCE INFECT PECTIN PECTIC
ACID ENZYME FIX CARRY
NC - 001
OPD - 1992-06-29
ORD - 1994-07-26
PAW - (AOMO-N) AOMORI KEN
TI - Prod. of mono- and oligo-galacturonic acid for resisting infections -
from pectin or pectic acid, using enzyme fixed to carrier